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FORM PTO-1449

FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.285000C

APPLICATION NO.
09/648,790

APPLICANT
HARTLEY *et al.*

FILING DATE
August 28, 2000

GROUP
1636

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
9	AE4	5,286,632	02/15/1994	Jones, D.H.	435	91.2	01/09/1991
	AF4	5,650,308	07/22/1997	Baum, J.A.	435	172.3	06/07/1995
	AG4	6,143,557	11/07/2000	Hartley <i>et al.</i>	435	320.1	01/20/1999
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FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
9	AO4	WO 94/09127	04/28/1994	WIPO/PCT			Yes No
9	AP4	WO 98/53056	11/26/1998	WIPO/PCT			X Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR		
9	AS	67	Albert, H., <i>et al.</i> , "Site-specific integration of DNA into wild-type and mutant <i>lox</i> sites placed in the plant genome," <i>Plant J.</i> 7:649-659, Oxford Bios Scientific Publishers and Blackwell Scientific Publications In Association With The Society For Experimental Biology (1995).
	AT	67	Andrews, B.J., <i>et al.</i> , "The FLP Recombinase of the 2 μ Circle DNA of Yeast: Interaction with Its Target Sequences," <i>Cell</i> 40:795-803, MIT Press (1985).

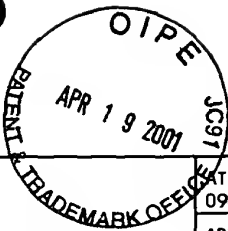
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3/21/02

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5	WO 99/21977	05/06/1999	WIPO/PCT			Yes No
	AM5	WO 99/25851	05/27/1999	WIPO/PCT			Yes No X
	AN5	WO 99/55851	11/04/1999	WIPO/PCT			Yes No
	AO5	WO 00/60091	10/12/2000	WIPO/PCT			Yes No
	AP5	WO 01/05961	01/25/2001	WIPO/PCT			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>68</u>	Bernard, P., "Positive Selection of Recombinant DNA by CcdB," <i>BioTechniques</i> 21:320-323, Eaton Publishing Co. (August 1996).
	AS	<u>68</u>	Dale, E.C., and Ow, D.W., "Mutations in the Cre/lox recombination site enhance the stability of recombination products: Applications for gene targeting in plants," <i>J. Cell. Biochem.</i> 16(Suppl. F):206, abstract no. Y 108, John Wiley & Sons (1992).
	AT	<u>68</u>	Davies, J., and Riechmann, L., "An antibody VH domain with a lox-Cre site integrated into its coding region: bacterial recombination within a single polypeptide chain," <i>FEBS Letts.</i> 377:92-96, Federation of European Biochemical Societies (1995).

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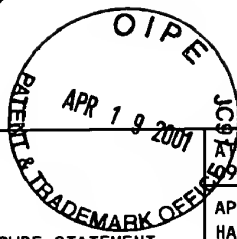
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AN						Yes No
	AO						Yes No
	AP						Yes No

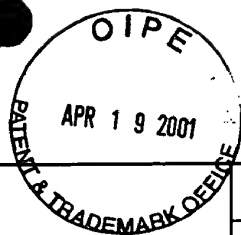
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	69	Hall, R.M., and Collis, C.M., "Mobile gene cassettes and integrons: capture and spread of genes by site-specific recombination," <i>Molec. Microbiol.</i> 15:593-600, Blackwell Science Ltd. (1995).
	AS	69	Krafte, D.S., <i>et al.</i> , "Stable Expression and Functional Characterization of a Human Cardiac Na ⁺ Channel Gene in Mammalian Cells," <i>J. Mol. Cell Cardiol.</i> 27:823-830, Academic Press Ltd. (1995).
	AT	69	Lee, G., and Saito, I., "Role of nucleotide sequences of <i>loxP</i> spacer region in Cre-mediated recombination," <i>Gene</i> 216:55-65, Elsevier Science B.V. (August 1998).

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>70</u>	Simpson, J.C., <i>et al.</i> , "Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing," <i>EMBO Rep.</i> 1:287-292, European Molecular Biology Organization (2000).
	AS	<u>70</u>	Venkatesh, T.V., and Radding, C.M., "Ribosomal Protein S1 and NusA Protein Complexed to Recombination Protein β of Phage λ ," <i>J. Bacteriol.</i> 175:1844-1846, American Society for Microbiology (1993).
	AT	<u>70</u>	Zahra, D.G., <i>et al.</i> , "Selectable in-vivo recombination to increase antibody library size -- an improved phage display vector system," <i>Gene</i> 227:49-54, Elsevier Science B.V. (1999).

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	71	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 98/53056 (Doc. No. AP4), WPI Accession No. 1999-000502/199901.
	AS	71	Dialog File 351 (Derwent World Patents Index), unverified English language abstract for WIPO/PCT Publication No. WO 99/25851 (Doc. No. AM5), WPI Accession No. 1999-347485/199929.
	AT		

EXAMINER

William R. Smith

DATE CONSIDERED

3/2/01

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000C	APPLICATION NO. 09/648,790
	APPLICANT Hartley et al.	
	FILING DATE August 28, 2000	GROUP 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CA	AA1	4,673,640	06/16/1987	Backman, K.C.	435	68	04/30/1984
	AB1	4,743,546	05/10/1998	Backman et al.	435	108	02/13/1985
	AC1	4,959,317	09/25/1990	Sauer B.L.	435	172.3	04/29/1987
	AD1	5,227,288	07/13/1993	Blattner, F.R.	435	6	10/01/1990
	AE1	5,354,668	10/11/1994	Auerbach, J.I.	435	91.1	10/15/1993
	AF1	5,434,066	07/18/1995	Bebee, R.L., et al.	435	172.3	03/15/1994
	AG1	5,470,727	11/28/1995	Mascarenhas et al.	435	172.3	12/21/1993
	AH1	5,591,609	01/07/1997	Auerbach, J.I.	435	91.2	02/03/1995
	AI1	5,614,389	03/25/1997	Auerbach, J.I.	435	91.2	09/26/1995
	AJ1	5,635,381	06/03/1997	Hooykaas et al.	435	172.3	01/20/1995
	AK1	5,658,772	08/19/1997	Odell et al.	435	172.3	07/27/1994

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
[Handwritten marks]	AL1	EP 0 160 571 A2	11/06/1985	Europe			Yes No
	AM1	EP 0 300 422	01/25/1989	Europe			Yes No
	AN1	WO 91/02801	03/07/1991	WIPO			Yes No
	AO1	WO 91/16427	10/31/1991	WIPO			Yes No
	AP1	WO 92/20791	11/26/1992	WIPO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
[Handwritten marks]	AR	1	Abremski, K., and Gottesman, S., "Purification of the Bacteriophage λ xis Gene Product Required for λ Excisive Recombination," J. Biol. Chem. 257(16):9658-9662, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1982).
	AS	1	Abremski, K., and Hoess, R., "Bacteriophage P1 Site-specific Recombination - Purification and Properties of the Cre Recombinase Protein," J. Biol. Chem. 259:1509-1514, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1984).
	AT	1	Abremski, K., et al., "Bacteriophage P1 Cre-loxP Site-specific Recombination: Site-specific DNA Topoisomerase Activity of the Cre Recombination Protein," J. Biol. Chem. 261(1):391-396, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1986).

EXAMINER Willam Sachs	DATE CONSIDERED 2/21/02
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	APPLICANT Hartley et al.	
	FILING DATE August 28, 2000	GROUP 1636

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
<i>CH</i>	AA2	5,677,170	10/14/1997	Devine et al.	435	20.1	03/02/1994
	AB2	5,677,177	10/14/1997	Wahl et al.	435	325	06/07/1995
	AC2	5,710,248	01/20/1998	Grose, C.F.	530	327	07/29/1996
	AD2	5,723,765	03/03/1998	Oliver et al.	800	208	06/07/1995
	AE2	5,733,733	03/31/1998	Auerbach, J.I.	435	6	02/01/1996
	AF2	5,733,743	03/31/1998	Johnson et al.	435	320.1	06/10/1996
	AG2	5,744,336	04/28/1998	Hodges et al.	435	172.3	03/08/1996
	AH2	5,766,891	06/16/1998	Shuman, S.	435	91.41	12/19/1994
	AI2	5,776,449	07/07/1998	Baum et al.	424	93.2	09/20/1996
	AJ2	5,830,707	11/03/1998	Bushman, F.D.	435	69.7	06/05/1995
	AK2	5,837,242	11/17/1998	Holliger et al.	424	136.1	05/14/1996

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
<i>CH</i>	AL2	WO 93/15191	08/05/1993	WIPO	—	—	Yes No
	AM2	WO 93/19172	09/30/1993	WIPO	—	—	Yes No
	AN2	CA 2,141,412	02/17/1994	Canada	—	—	Yes No
	AO2	WO 94/17176	08/04/1994	WIPO	—	—	Yes No
	AP2	WO 95/00555	01/05/1995	WIPO	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>CH</i>	AR	2	Abremski, K., et al., "Studies on the Properties of P1 Site-Specific Recombination: Evidence for Topologically Unlinked Products Following Recombination," Cell 32:1301-1311, Cell Press, Cambridge, MA (1993).
<i>1</i>	AS	2	Adams, D.E., et al., "Cre-lox Recombination in <i>Escherichia coli</i> Cells: Mechanistic Differences from the <i>in Vitro</i> Reaction," J. Mol. Biol. 226:661-673, Academic Press, Inc., New York, NY (1992).
<i>1</i>	AT	2	Andrews, B.J., et al., "The FLP Recombinase of the 2 μ Circle DNA of Yeast: Interaction with Its Target Sequences," Cell 40:795-803, Cell Press, Cambridge, MA (1985).

EXAMINER <i>William Smith</i>	DATE CONSIDERED <i>3/21/02</i>
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
[Signature]	AA3	5,843,772	12/01/1998	Devine, S.E., et al.	435	69.1	11/18/1994
	AB3	5,851,808	12/22/1998	Elledge et al.	435	172.3	02/28/1997
	AC3	5,858,657	01/12/1999	Winter et al.	435	6	06/07/1995
	AD3	5,871,907	02/16/1999	Winter et al.	435	6	03/31/1994
	AE3	5,874,259	02/23/1999	Szybalski, W.	435	91.1	11/21/1997
	AF3	5,888,732	03/30/1999	Hartley et al.	435	6	06/07/1996
	AG3	5,916,804	06/29/1999	Bushman, F.D.	435	325	04/17/1998
	AH3	5,919,676	07/06/1999	Graham et al.	435	172.3	06/07/1995
	AI3	5,928,914	07/27/1999	Leboulch et al.	435	172.3	11/05/1996
	AJ3	5,989,872	11/22/1999	Luo et al.	435	91.2	08/12/1997
	AK3	6,010,884	01/04/2000	Griffiths et al.	435	69.7	05/29/1996

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
[Signature]	AL3	WO 97/06265	02/20/1997	WIPO	_____	_____	Yes No
	AM3	WO 97/09436	03/13/1997	WIPO	_____	_____	Yes No
	AN3	WO 97/25446	07/17/1997	WIPO	_____	_____	Yes No
	AO3	WO 97/32481	09/12/1997	WIPO	_____	_____	Yes No
	AP3	WO 98/10086	03/12/1998	WIPO	_____	_____	Yes No


OTHER (Including Author, Title, Date, Pertinent Pages, etc.)


[Signature]	AR	3	Andrews, B.J., et al., "Interaction of the FLP Recombinase of the <i>Saccharomyces cerevisiae</i> 2 μ m Plasmid with Mutated Target Sequences," <i>Mol. Cell. Biol.</i> 6:2482-2489, American Society for Microbiology, Washington, D.C. (1986).
	AS	3	Anton, M., and Graham, F.L., "Site-Specific Recombination Mediated by an Adenovirus Vector Expressing the Cre Recombinase Protein: a Molecular Switch for Control of Gene Expression," <i>J. Virol.</i> 69:4600-4606, American Society for Microbiology, Washington, D.C. (1995).
	AT	3	Araki, H., et al., "Site-specific Recombinase, R, Encoded by Yeast Plasmid pSR1," <i>J. Mol. Biol.</i> 225:25-37, Academic Press, Inc., New York, NY (1992).


EXAMINER [Signature]	DATE CONSIDERED 3/21/02
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	AA4	6,040,430	03/21/2000	Stewart	530	358	12/26/1995
	AB4	6,063,627	06/16/2000	McVey et al.	435	440	02/25/1998
	AC4	5,348,886	09/20/1994	Lee et al.	435	320.1	09/04/1992
	AD4	6,171,861	01/09/2001	Hartley et al.	435	455	01/12/1998
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4	WO 99/10488	03/04/1999	WIPO			Yes No
	AM4	WO 00/12687	03/09/2000	WIPO			Yes No
	AN4	EP 1 035 208	09/13/2000	Europe			Yes No
	AO						Yes No
	AP						Yes No



OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	4	Argos, P., et al., "The integrase family of site-specific recombinases: regional similarities and global diversity," <i>EMBO J.</i> 5(2):433-440, IRL Press Limited, Oxford, England (1986).
	AS	4	Astumian, et al., "Site-specific recombination between cloned attP and attB sites from the Haemophilus influenza bacteriophage HP1 propagated in recombination deficient <i>Escherichia coli</i> ," <i>J. Bacteriol.</i> 171:1747-1750, American Society for Microbiology, Washington, D.C. (1989).
	AT	4	Atlung, T., et al., "A versatile method for integration of genes and gene fusions into the λ attachment site of <i>Escherichia coli</i> ," <i>Gene</i> 107:11-17, Elsevier/North-Holland, Netherlands (1991).

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	AM						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>5</u>	Ausubel, F.M., et al., "Maps of Plasmids pBR322 and pUC19," in <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, (1995).
	AS	<u>5</u>	Ausubel, F.M., et al., "Mutagenesis by the Polymerase Chain reaction," in: <i>Current Protocols in Molecular Biology</i> , John Wiley & Sons, Inc., Boston, MA, pp. 8.5.1-8.5.9 (1995).
	AT	<u>5</u>	Babineau, D. et al., "The FLP Protein of the 2-micron Plasmid of Yeast," <i>J. Biol. Chem.</i> 260:12313-12391, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1985).

EXAMINER <i>W. H. S. Sordahl</i>	DATE CONSIDERED <i>3/21/02</i>
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	Balakrishnan, R., et al., "A gene cassette for adapting <i>Escherichia coli</i> strains as hosts for att-Int-mediated rearrangement and p_L expression vectors," <i>Gene</i> 138:101-104, Elsevier/North-Holland, Netherlands (January 1994).
	AS	<u>6</u>	Bayley, C.C., et al., "Exchange of gene activity in transgenic plants catalyzed by the Cre-lox site specific recombination system," <i>Plant Mol. Biol.</i> 18:353-361, Dordrecht Kluwer Academic, Boston, MA (1992).
	AT	<u>6</u>	Bethke, B., and Sauer, B., "Segmental genomic replacement by Cre-mediated recombination: genotoxic stress activation of the p53 promoter in single-copy transformants," <i>Nucl. Acids Res.</i> 25:2828-2834, Oxford University Press, Oxford, England (1997).

EXAMINER <i>Wrttia S. Blair</i>	DATE CONSIDERED <i>3/21/02</i>
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000C	APPLICATION NO. 09/648,790
	APPLICANT Hartley et al.	
	FILING DATE August 28, 2000	GROUP 1636

U.S. PATENT DOCUMENTS							
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	2	Bernard, P., and Couturier, M., "Cell Killing by the F plasmid Ccdb Protein Involves Poisoning of DNA-topoisomerase II Complexes," <i>J. Mol. Biol.</i> 226:735-745, Academic Press, Inc., New York, NY (1992).				
	AS	2	Bernard, P., et al., "Positive Selection of vectors using the F plasmid ccdB killer gene," <i>Gene</i> 148:71-74, Elsevier Science Publishers B.V., Amsterdam, Netherlands (1994).				
	AT	2	Betz, U.A.K., et al., "Bypass of lethality with mosaic mice generated by Cre-loxP-mediated recombination," <i>Curr. Biol.</i> 6:1307-1316, Current Biology Ltd., London, England (October 1996).				


EXAMINER <i>William Smith</i>	DATE CONSIDERED <i>3/24/02</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	8	Bhandari, P. and Gowrishankar, J., "An <i>Escherichia coli</i> host strain useful for efficient overproduction of cloned gene products with NaCl as the inducer," <i>J. Bacteriol.</i> 179:4403-4406, American Society for Microbiology, Washington, D.C. (July 1997).
	AS	8	Black, L.W., "In vitro packaging into phage T4 particles and specific recircularization of phage lambda DNAs," <i>Gene</i> 46:97-101, Elsevier/North-Holland, Netherlands (1986).
	AT	8	Bloch, C.A., et al., "Purification of <i>Escherichia coli</i> Chromosomal Segments without Cloning," <i>Biochem. Biophys. Res. Comm.</i> 223:104-111, Academic Press, Inc., New York, NY (1996).


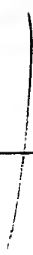
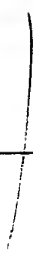
EXAMINER <i>W. H. Smith</i>	DATE CONSIDERED <i>3/24/02</i>
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	AR	2	Bochner, B. R., et al., "Positive Selection for Loss of Tetracycline Resistance," <i>J. Bacteriol.</i> 143:926-933, American Society for Microbiology, Washington, D.C. (1980).
	AS	2	Boyd, A. C., "Turbo cloning: a fast, efficient method for cloning PCR products and other blunt-ended DNA fragments into plasmids," <i>Nucl. Acids Res.</i> 21(4):817-821, Oxford University Press, Oxford, England (1993).
	AT	2	Broach, J. R., et al., "Recombination within the Yeast Plasmid 2 μ Circle is Site-Specific," <i>Cell</i> 29:227-234, Cell Press, Cambridge, MA (1982).

EXAMINER	<i>William S. Adams</i>	DATE CONSIDERED	<i>2/21/02</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	Brunelli, J. P. and Pall, M. L., "A Series of Yeast/ <i>Escherichia coli</i> λ Expression Vectors Designed for Directional Cloning of cDNAs and cre/lox-Mediated Plasmid Excision," Yeast 9:1309-1318, John Wiley, Chichester, NY (1993).
	AS	<u>10</u>	Brunelli, J.P., and Pall, M.L., "Lambda/Plasmid Vector Construction by In Vivo cre/lox-Mediated Recombination," BioTechniques 16(6):1061-1064, Eaton Publishing Company, Natick, MA (June 1994).
	AT	<u>10</u>	Bubeck, P., et al., "Rapid cloning by homologous recombination in vivo," Nucl. Acids Res. 21:3601-3602, Oxford University Press, Oxford, England (1993).

EXAMINER	<i>W. H. Smith</i>	DATE CONSIDERED	<i>3/21/02</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	Buchholz, F., et al., "A simple assay to determine the functionality of Cre or FLP recombination targets in genomic manipulation constructs," Nucl. Acids Res. 24(15):3118-3119, Oxford University Press, Oxford, England (1996).
	AS	<u>11</u>	Buchholz, F., et al., "Different thermostabilities of FLP and Cre recombinases: implications for applied site-specific recombination," Nucl. Acids Res. 24(21):4256-4262, Oxford University Press, Oxford, England (1996).
	AT	<u>11</u>	Bushman, W., et al., "Control of Directionality in Lambda Site Specific Recombination," Science 230:906-911, Association for the Advancement of Science, Washington D.C. (1985).

EXAMINER	<i>William Seal</i>	DATE CONSIDERED	3/21/02
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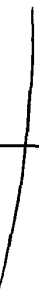

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>12</u>	Campbell, A. M., "Chromosomal Insertion Sites for Phages and Plasmids," J. Bacteriol. 174(23):7495-7499, American Society for Microbiology, Washington, D.C. (1992).
	AS	<u>12</u>	Chapin, S.J., et al., "Differential expression of alternatively spliced forms of MAP4: a repertoire of structurally different microtubule-binding domains," Biochem. 34:2289-2301, American Chemical Society, Washington D.C. (1995).
	AT	<u>12</u>	Chatterjee, P.K., and Coren, J.S., "Isolating large nested deletions in bacterial and P1 artificial chromosomes by in vivo P1 packaging of products of Cre-catalyzed recombination between the endogenous and a transposed loxP site," Nucl. Acids Res. 25:2205-2212, Oxford University Press, Oxford, England (1997).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>13</u>	Cox, M.M., "The FLP protein of the yeast 2- μ m plasmid: Expression of a eukaryotic genetic recombination system in <i>Escherichia coli</i> ," <i>Proc. Natl. Acad. Sci. USA</i> 80:4223-4227, National Academy of Sciences of the USA, Washington, D.C. (1983).
	AS	<u>13</u>	Craig, N.L. and Nash, H.A., "The Mechanism of Phage λ Site-Specific Recombination: Site-Specific Breakage of DNA by Int Topoisomerase," <i>Cell</i> 35:795-803, Cell Press, Cambridge, MA (1983).
	AT	<u>13</u>	Dale, E.C. and Ow, D.W., "Intra- and intermolecular site-specific recombination in plant cells mediated by bacteriophage P1 recombinase," <i>Gene</i> 91:79-85, Elsevier/North-Holland, Netherlands (1990).

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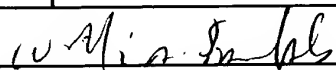
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>14</u>	Dale, E.C. and Ow, D.W., "Gene transfer with subsequent removal of the selection gene from the host genome," <i>Proc. Natl. Acad. Sci. USA</i> 88:10558-10562, National Academy of Sciences of the USA, Washington, D.C. (1991).
	AS	<u>14</u>	Dang, D.T. and Perrimon, N., "Use of a Yeast Site-Specific Recombinase to Generate Embryonic Mosaics in <i>Drosophila</i> ," <i>Develop. Genetics</i> 13:367-375, Wiley-Liss, Inc., New York, NY (1992).
	AT	<u>14</u>	Degryse, E., "In vivo intermolecular recombination in <i>Escherichia coli</i> : application to plasmid constructions," <i>Gene</i> 170:45-50, Elsevier/North-Holland, Netherlands (1996).

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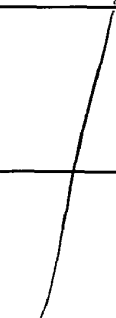
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>15</u>	Devine, S. E., and Boeke, J.D., "Efficient integration of artificial transposons into plasmid targets <i>in vitro</i> : a useful tool for DNA mapping, sequencing and genetic analysis," Nucl. Acids Res. 22(18):3765-3772, Oxford University Press, Oxford, England (September 1994).
	AS	<u>15</u>	Diederich, L., et al., "New Cloning Vectors for Integration into the λ Attachment Site attB of the <i>Escherichia coli</i> Chromosome," Plasmid 28:14-24, Academic Press, New York, NY (1992)
	AT	<u>15</u>	Dymecki, S. M., "A modular set of F ₁ p, FRT and lacZ fusion vectors for manipulating genes by site-specific recombination," Gene 171:197-201, Elsevier/North-Holland, Netherlands (June 1996).

EXAMINER <i>William G. Baker</i>	DATE CONSIDERED <i>3/21/02</i>
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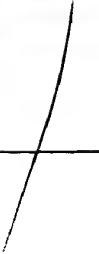
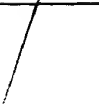
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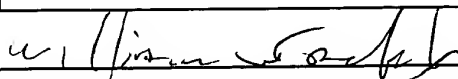
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>16</u>	Elledge, S. J., et al., "AYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and <i>Escherichia coli</i> mutations," <i>Proc. Natl. Acad. Sci. USA</i> 88:1731-1735, National Academy of Sciences of the USA, Washington, D.C. (1991).
	AS	<u>16</u>	Feil, R., et al., "Regulation of Cre Recombinase Activity by Mutated Estrogen Receptor Ligand-Binding Domains," <i>Biochem. Biophys. Res. Comm.</i> 237:752-757, Academic Press, Inc., New York, NY (1997).
	AT	<u>16</u>	Ferguson, J., et al., "Construction and characterization of three yeast- <i>Escherichia coli</i> shuttle vectors designed for rapid subcloning of yeast genes on small DNA fragments," <i>Gene</i> 16:191-197, Elsevier/North-Holland, Netherlands (1981).

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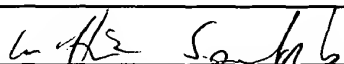
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	AR	<u>17</u>	Fiering, S., et al., "An "in-out" strategy using gene targeting and FLP recombinase for the functional dissection of complex DNA regulatory elements: Analysis of the β -globin locus control region," <i>Proc. Natl. Acad. Sci. USA</i> 90:8469-8473, National Academy of Sciences of the USA, Washington, D.C. (1993).
	AS	<u>17</u>	Filutowicz, M., et al., "Purification of the <i>Escherichia coli</i> integration host factor (IHF) in one chromatographic step," <i>Gene</i> 147:149-150, Elsevier/North-Holland, Netherlands (September 1994).
	AT	<u>17</u>	Francia, M.V., and Lobo, J.M.G., "Gene Integration in the <i>Escherichia coli</i> Chromosome Mediated by Tn21 Integrase (Int21)," <i>J. Bacteriol.</i> 178:894-898, American Society for Microbiology, Washington, D.C. (February 1996).

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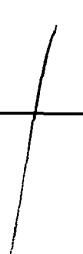
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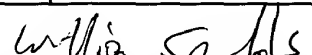
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	AR	<u>18</u>	Fukushige, S. and Sauer, B., "Genomic targeting with a positive-selection lox integration vector allows highly reproducible gene expression in mammalian cells," Proc. Natl. Acad. Sci. USA 89:7905-7909, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AS	<u>18</u>	Geoffroy, F., et al., "A new phage display system to construct multicombinatorial libraries of very large antibody repertoires," Gene 151:109-113, Elsevier/North-Holland, Netherlands (December 1994).
	AT	<u>18</u>	Glasgow, A.C., et al., "DNA-binding Properties of the Hin Recombinase," J. Biol. Chem. 264:10072-10082, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1989).

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000C	APPLICATION NO. 09/648,790
	APPLICANT Hartley et al.	
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U.S. PATENT DOCUMENTS

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>19</u>	Golic, K. G. and Lindquist, S., "The FLP Recombinase of Yeast Catalyzes Site-Specific Recombination in the Drosophila Genome," Cell 59:499-509, Cell Press, Cambridge, MA (1989).
	AS	<u>19</u>	Gu, H., et al., "Deletion of a DNA Polymerase β Gene Segment in T Cells Using Cell Type-Specific Gene Targeting," Science 265:103-106, Association for the Advancement of Science, Washington D.C. (1994).
	AT	<u>19</u>	Guo, F., et al., "Asymmetric DNA bending in the Cre-loxP site-specific recombination synapse," Proc. Natl. Acad. Sci. USA 96:7143-7148, National Academy of Sciences of the USA, Washington, D.C. (1999).

EXAMINER	<i>uc/la sml</i>	DATE CONSIDERED	3/21/02
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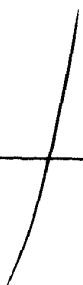
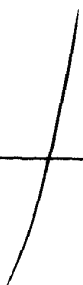
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>20</u>	Hardy, S., et al., "Construction of Adenovirus Vectors through Cre-lox Recombination," J. Virol. 71(3):1842-1849, American Society for Microbiology, Washington, D.C. (1997).
	AS	<u>20</u>	Hasan, N., and Szybalski, W., "Control of cloned gene expression by promoter inversion in vivo: construction of improved vectors with a multiple cloning site and the P _{tac} promoter," Gene 56:145-151, Elsevier/North-Holland, Netherlands (1987).
	AT	<u>20</u>	Hasan, N., et al., "Escherichia coli genome targeting, I. Cre-lox-mediated in vitro generation of ori ⁺ plasmids and their in vivo chromosomal integration and retrieval," Gene 150:51-56, Elsevier/North-Holland, Netherlands (December 1994).

EXAMINER	<i>William Sankals</i>	DATE CONSIDERED	<i>3/21/02</i>
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	AR	<u>21</u>	Hashimoto-Gotoh, T., et al., "Improved vector, pHSG664, for direct streptomycin-resistance selection: cDNA cloning with G:C-tailing procedure and subcloning of double-digested DNA fragments," Gene 41:125-128, Elsevier/North-Holland, Netherlands (1986).
	AS	<u>21</u>	Hoekstra, M. F., et al., "Shuttle Mutagenesis: Bacterial Transposons for Genetic Manipulations in Yeast," Meth. Enzymol. 194:329-342, Academic Press Inc., New York, NY (1991).
	AT	<u>21</u>	Hoess, R.H., et al., "P1 site-specific recombination: Nucleotide sequence of the recombining sites," Proc. Natl. Acad. Sci. USA 79:3398-3402, National Academy of Sciences of the USA, Washington, D.C. (1982).

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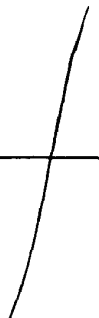
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	AR	22	Hoess, R.H., et al., "Mechanism of Strand Cleavage and Exchange in the Cre-lox Site-specific Recombination System," J. Mol. Biol. 181:351-362, Academic Press, Inc., New York, NY (1985).
	AS	22	Hoess, R., et al., "Formation of small circular DNA molecules via an in vitro site-specific recombination system," Gene 40:325-329, Elsevier/North-Holland, Netherlands (1985).
	AT	22	Hoess, R. H., et al., "The role of the loxP spacer region in P1 site-specific recombination," Nucl. Acids Res. 14(5):2287-2300, Oxford University Press, Oxford, England (1986).

EXAMINER <i>William Smith</i>	DATE CONSIDERED <i>3/21/02</i>
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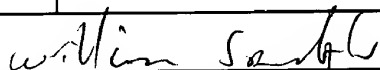
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	AR	<u>23</u>	Hoess, R. H., and Abremski, K., "The Cre-lox Recombination System," in: Nucleic Acids and Molecular Biology, Vol. 4, ed. by Eckstein, F. and D. M. J. Lilley, Springer-Verlag, Berlin, pp 99-109 (1990).
	AS	<u>23</u>	Hoogenboom, H.R., et al., "Multi-subunit proteins on the surface of filamentous phage: methodologies for displaying antibody (Fab) heavy and light chains," Nucl. Acids Res. 19:4133-4137, Oxford University Press, Oxford, England (1991).
	AT	<u>23</u>	Holt, C.L., and May, G.S., "A novel phage λ replacement Cre-lox vector that has automatic subcloning capabilities," Gene 133:95-97, Elsevier/North-Holland, Netherlands (1993).

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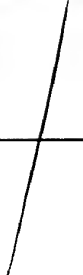
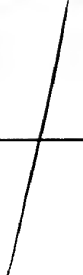
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>24</u>	Jaffé, A., et al., "Effects of the ccd Function of the F Plasmid on Bacterial Growth," J. Bacteriol. 163:841-849, American Society for Microbiology, Washington, D.C. (1985).
	AS	<u>24</u>	Kanaar, R., et al., "Gin-Mediated Recombination of Catenated and Knotted DNA Substrates: Implications for the Mechanism of Interaction Between Cis-Acting Sites," Cell 58:147-159, Cell Press, Cambridge, MA (1989).
	AT	<u>24</u>	Katz, L., et al., "Site-specific Recombination in Escherichia coli between the att sites of plasmid pSE211 from Saccharopolyspora erythraea," Mol. Gen. Genet. 227:155-159, Springer-Verlag, New York, NY (1991).

EXAMINER

William S. A. L.

DATE CONSIDERED



3/21/02

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	<u>25</u>	Kilby, N.J., et al., "Site-specific recombinases: tools for genome engineering," Trends Genet. 9:413-421, Elsevier Science Publishers Ltd., Cambridge, England (1993).				
	AS	<u>25</u>	Kim, S., et al., "Lambda Int Protein Bridges Between Higher Complexes at Two Distant Chromosomal Loci attL and attR," Science 256:198-263, Association for the Advancement of Science, Washington D.C. (1992).				
	AT	<u>25</u>	Kozak, M., "Comparison of Initiation of Protein Synthesis in Prokaryotes, Eucaryotes, and Organelles," Microbiol. Rev. 47:1-45, American Society For Microbiology, Washington, D.C. (1983).				

EXAMINER	<i>W. H. Lin</i> <i>S. M. L.</i>	DATE CONSIDERED	<i>2/21/02</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
	AR	26	Kozak, M., "An analysis of 5'-noncoding sequences from 699 vertebrate messenger RNAs," Nucl. Acids res. 15:8125-8132, Oxford University Press, Oxford, England (1987).				
	AS	26	Kozak, M., "Structural features in eukaryotic mRNAs that modulate the initiation of translation," J. Biol. Chem 266:19867-19870, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1991).				
	AT	26	Kühn, R., et al., "Inducible Gene Targeting in Mice," Science 269:1427-1429, Association for the Advancement of Science, Washington D.C. (September 1995).				

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	27	Lafontaine, D., and Tollervey, D., "One-step PCR mediated strategy for the construction of conditionally expressed and epitope tagged yeast proteins," Nucl. Acids Res. 24:2469-2472, Oxford University Press, Oxford, England (1996).
	AS	27	Lakso, M., et al., "Targeted oncogene activation by site-specific recombination in transgenic mice," Proc. Natl. Acad. Sci. USA 89:6232-6236, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AT	27	Lander, E.S., "The New Genomics: Global Views of Biology," Science 274:536-539, Association for the Advancement of Science, Washington D.C. (October 1996).

EXAMINER <i>W. D. Smith</i>	DATE CONSIDERED <i>3/2/02</i>
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FORM PTO-1449
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09/648,790

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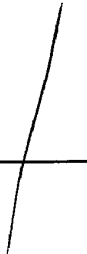

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>28</u>	Landy, A., "Dynamic, Structural, and Regulatory Aspects of λ Site-Specific Recombination," Annu. Rev. Biochem. 58:913-949, American Chemical Society, Washington D.C. (1989).
	AS	<u>28</u>	Landy, A., "Mechanistic and structural complexity in the site-specific recombination pathways of Int and FLP," Curr. Op. Genet. Develop. 3:699-707, Current Biology Ltd., London, England (1993).
	AT	<u>28</u>	Lebreton, B., et al., "Mutations That Improve the Binding of Yeast FLP Recombinase to Its Substrate," Genetics 118:393-400, Genetics Society of America, Baltimore, MD (1988).

EXAMINER

Walter A. Adams

DATE CONSIDERED

3/26/02

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>29</u>	Lee, E.C., et al., "Genetic Analysis of <i>Escherichia coli</i> Integration Host Factor Interactions with Its Bacteriophage λ H' Recognition Site," <i>J. Bacteriol.</i> 173:609-617, American Society for Microbiology, Washington, D.C. (1991).
	AS	<u>29</u>	Leong, J.M., et al., "Generation of single base-pair deletions, insertions, and substitutions by a site-specific recombination system," <i>Proc. Natl. Acad. Sci. USA</i> 82:6990-6994, National Academy of Sciences of the USA, Washington, D.C. (1985).
	AT	<u>29</u>	Liu, Q., et al., "The univector plasmid-fusion system, a method for rapid construction o recombinant DNA without restriction enzymes," <i>Curr. Biol.</i> 8:1300-1309, Current Biology Ltd., London, England (1998).

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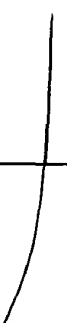
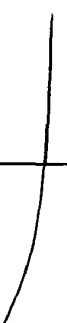
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	AR	<u>30</u>	Lorbach, E. et al., "Site-specific Recombination in Human Cells Catalyzed by Phage λ Integrase Mutants," <i>J. Mol. Biol.</i> 296:1175-1181, Academic Press, Inc., New York, NY (March 2000).
	AS	<u>30</u>	Luckow, V. A., et al., "Efficient Generation of Infectious Recombinant Baculoviruses by Site-Specific Transposon-Mediated Insertion of Foreign Genes into a Baculovirus Genome Propagated in <i>Escherichia coli</i> ," <i>J. Virol.</i> 67(8):4566-4579, American Society for Microbiology, Washington, D.C. (1993).
	AT	<u>30</u>	Maeser, S., and Kahmann, R., "The Gin recombinase of phage Mu can catalyze site-specific recombination in plant protoplasts," <i>Mol. Gen. Genet.</i> 230:170-176, Springer-Verlag, New York, NY (1991).


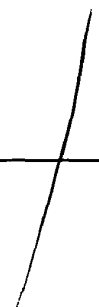

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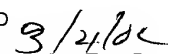
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>31</u>	Matsuzaki, H., et al., "Chromosome Engineering in <i>Saccharomyces cerevisiae</i> by Using a Site-Specific Recombination System of a Yeast Plasmid," <i>J. Bacteriol.</i> 172:610-618, American Society for Microbiology, Washington, D.C. (1990).
	AS	<u>31</u>	Mahillon, J., et al., "IS231 and other <i>Bacillus thuringiensis</i> transposable elements: a review," <i>Genetica</i> 93:13-26, Dordrecht Kluwer Academic Publishers (November 1994).
	AT	<u>31</u>	McCarthy, J.E. and Brimacombe, R., "Prokaryotic translation: the interactive pathway leading to initiation," <i>Trends Genet.</i> 10:402-407, Elsevier Science Publishers Ltd., Cambridge, England (November 1994).

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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000C	APPLICATION NO. 09/648,790
	APPLICANT Hartley et al.	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>32</u>	Medberry, S.L., et al., "Intra-chromosomal rearrangements generated by Cre-lox site-specific recombination," Nucl. Acids Res. 23:485-490, Oxford University Press, Oxford, England (1995).
	AS	<u>32</u>	Miki, T. et al., "Control of Segregation of Chromosomal DNA by Sex Factor F in Escherichia coli. Mutants of DNA Gyrase Subunit A Suppress letD (ccdB) Product Growth Inhibition," J. Mol. Biol. 225:39-52, Academic Press, Inc., New York, NY (1992).
	AT	<u>32</u>	Mizuuchi, K., and Mizuuchi, K., "Integrative Recombination of Bacteriophage λ: In Vitro Study of the Intermolecular Reaction," Cold Spring Harb. Symp. Quant. Biol. 43:1111-1114, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1979).

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
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	AO						Yes No
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	AR	<u>33</u>	Mizuuchi, M. and Mizuuchi, K., "The extent of DNA sequence required for a functional bacterial attachment site of phage lambda," Nucl. Acids Res. 13:1193-1208, Oxford University Press, Oxford, England (1985).
	AS	<u>33</u>	Mozo, T. and Hooykaas, P. J. J., "Design of a novel system for the construction of vectors for Agrobacterium-mediated plant transformation," Mol. Gen. Genet 236:1-7, Springer-Verlag, New York, NY (1992).
	AT	<u>33</u>	Mullins, L.J., et al., "Efficient Cre-lox linearisation of BACs: applications to physical mapping and generation of transgenic animals," Nucl. Acids Res. 25(12):2539-2540, Oxford University Press, Oxford, England (1997).

EXAMINER	<i>William Smith</i>	DATE CONSIDERED	3/21/02
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>34</u>	Nagaraja, R. and Weisberg, R. A., "Specificity Determinants in the Attachment Sites of Bacteriophages HK022 and λ ," J. Bacteriol. 172:6540-6550, American Society for Microbiology, Washington, D.C. (1990).
	AS	<u>34</u>	Nash, H.A., "Integrative Recombination of Bacteriophage Lambda DNA In Vitro," Proc. Natl. Acad. Sci. USA 72:1072-1076, National Academy of Sciences of the USA, Washington, D.C. (1975).
	AT	<u>34</u>	Nash, H.A., and Robertson, C.A., "Purification and properties of the Escherichia coli protein factor required for lambda integrative recombination," J. Biol. Chem. 256:9246-9253, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1981).

EXAMINER	<i>William Smith</i>	DATE CONSIDERED	3/21/02
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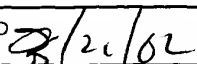
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	AR	<u>35</u>	Nash, H. A., "Purification and Properties of the Bacteriophage Lambda Int Protein," Meth. Enzymol. 100:210-216, Academic Press Inc., New York, NY (1983).
	AS	<u>35</u>	Nash, H. A., et al., "Role of homology in site-specific recombination of bacteriophage λ: Evidence against joining of cohesive ends," Proc. Natl. Acad. Sci. USA 84:4049-4053, National Academy of Sciences of the USA, Washington, D.C. (1987).
	AT	<u>35</u>	Nash, H. and C.A. Robertson, "Heteroduplex substrates for bacteriophage lambda site-specific recombination: cleavage and strand transfer products," EMBO J. 8:3523-3533, IRL Press Limited, Oxford, England (1989).

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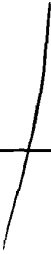
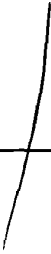
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>36</u>	Nash, H.A., "Bending and supercoiling of DNA at the attachment site of bacteriophage λ," Trends Biochem. Sci 15:222-227, International Union of Biochemistry and Elsevier Trends Journal, Cambridge, England (1990).
	AS	<u>36</u>	Numrych, T. E., et al., "A comparison of the effects of single-base and triple-base changes in the integrase arm-type binding sites on the site-specific recombination of bacteriophage lambda," Nucl. Acids Res. 18:3953-3959, Oxford University Press, Oxford, England (1990).
	AT	<u>36</u>	Numrych, T.E., et al., "Characterization of the bacteriophage lambda excisionase (Xis) protein: the C-terminus is required for Xis-integrase cooperativity but not for DNA binding," EMBO J. 11(10):3797-3806, IRL Press Limited, Oxford, England (1992).


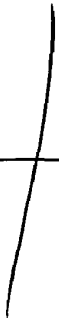

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>37</u>	Nunes-Duby, S.E., et al., "Half-att Site Substrates Reveal the Homology Independence and Minimal Protein Requirements for Productive Synapsis in λ Excisive Recombination," Cell 59:197-206, Cell Press, Cambridge, MA (1989).
	AS	<u>37</u>	Nunes-Duby, et al., "Similarities and differences among 105 members of the Int family of site-specific recombinases," Nucl. Acids Res. 26:391-406, Oxford University Press, Oxford, England (1998).
	AT	<u>37</u>	Oberto, J., et al., "A segment of the phage HK022 chromosome is a mosaic of other lambdoid chromosomes," Nucl. Acids Res. 22(3):354-356, Oxford University Press, Oxford, England (February 1994).

EXAMINER	<i>W. Allen</i> <i>FA/AC</i>	DATE CONSIDERED	<i>3/21/01</i>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

21	AR	38	Oliner, J.D., et al., "In vivo cloning of PCR products in <i>E. coli</i> ," <i>Nucl. Acids Res.</i> 21:5192-5197, Oxford University Press, Oxford, England (1993).
	AS	38	Orban, P. C., et al., "Tissue- and site-specific DNA recombination in transgenic mice," <i>Proc. Natl. Acad. Sci. USA</i> 89:6861-6865, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AT	38	Osborne, B.I., et al., "A system for insertional mutagenesis and chromosomal rearrangement using the Ds transposon and Cre-lox," <i>Plant J.</i> 7:687-701, Oxford Bios Scientific Publishers And Blackwell Scientific Publications In Association With The Society For Experimental Biology, Oxford, England (1995).

EXAMINER <i>William S. H/S</i>	DATE CONSIDERED <i>2/21/02</i>
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>39</u>	Padgett, K. A. and Sorge, J. A., "Creating seamless junctions independent of restriction sites in PCR cloning," <i>Gene</i> 168:31-35, Elsevier/North-Holland, Netherlands (February 1996).
	AS	<u>39</u>	Palazzolo, M. J., et al., "Phage lambda cDNA cloning vectors for subtractive hybridization, fusion-protein synthesis and Cre-loxP automatic plasmid subcloning," <i>Gene</i> 88:25-36, Elsevier/North-Holland, Netherlands (1990).
	AT	<u>39</u>	Pan, G., et al., "Ligation of Synthetic Activated DNA Substrates by Site-specific Recombinases and Topoisomerase I," <i>J. Biol. Chem.</i> 268(5):3683-3689, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1993).

EXAMINER	<i>William S. Smith</i>	DATE CONSIDERED	3/21/02
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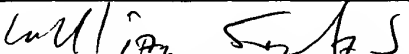
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	AR	<u>40</u>	Parks, R.J., and Graham, F.L., "A Helper-Dependent System for Adenovirus Vector Production Helps Define a Lower Limit for Efficient DNA Packaging," J. Virol. 71(4):3293-3298, American Society for Microbiology, Washington, D.C. (1997).
	AS	<u>40</u>	Peakman, T. C., et al., "Highly efficient generation of recombinant baculoviruses by enzymatically mediated site-specific in vitro recombination," Nucl. Acids Res. 20:495-500, Oxford University Press, Oxford, England (1992).
	AT	<u>40</u>	Peredelchuk, M.Y., and Bennett, G.N., "A method for construction of E. coli strains with multiple DNA insertions in the chromosome," Gene 187:231-238, Elsevier/North-Holland, Netherlands (1997).

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	AR	<u>41</u>	Pichel, J. G., et al., "Timing of SV40 oncogene activation by site-specific recombination determines subsequent tumor progression during murine lens development," <i>Gene</i> 8:3333-3342, Elsevier/North-Holland, Netherlands (1993).
	AS	<u>41</u>	Pierce, J. C., et al., "A positive selection vector for cloning high molecular weight DNA by the bacteriophage P1 system: Improved cloning efficacy," <i>Proc. Natl. Acad. Sci. USA</i> 89:2056-2060, National Academy of Sciences of the USA, Washington, D.C. (1992).
	AT	<u>41</u>	Podhajska, A. J., et al., "Control of cloned gene expression by promoter inversion in vivo: construction of the heat-pulse-activated <i>att-nutL-p-att-N</i> module," <i>Gene</i> 40:163-168, Elsevier/North-Holland, Netherlands (1985).


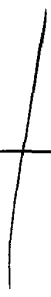

EXAMINER	<i>William S. H. Jr.</i>	DATE CONSIDERED	<i>3/21/02</i>
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	AR	<u>42</u>	Pósfai, G., et al., "In vivo excision and amplification of large segments of the Escherichia coli genome," Nucl. Acids Res. 22(12):2392-2398, Oxford University Press, Oxford, England (June 1994).
	AS	<u>42</u>	Prasad, P. V., et al., "Substrate Recognition by the 2μm Circle Site-Specific Recombinase: Effect of Mutations within the Symmetry Elements of the Minimal Substrate," Mol. Cell. Biol. 6:4329-4334, American Society for Microbiology, Washington, D.C. (1986).
	AT	<u>42</u>	Qian, X., et al., "Reactions between Half- and Full-FLP Recombination Target Sites: A Model System for Analyzing Early Steps in FLP Protein-Mediated Site-Specific Recombination," J. Biol. Chem 267(11):7794-7805, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1992).

EXAMINER	<i>William S. Smith</i>	DATE CONSIDERED	<i>3/21/02</i>
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	AR	<u>43</u>	Reed, R.R., "Transposon-Mediated Site-Specific Recombination: A Defined in Vitro System," Cell 25:713-719, Cell Press, Cambridge, MA (1981).
	AS	<u>43</u>	Reed, R.R. and N.D. Grindley, "Transposon-Mediated Site-Specific Recombination in Vitro: DNA Cleavage and Protein-DNA Linkage at the Recombination Site," Cell. 25:721-728, Cell Press, Cambridge, MA (1981).
	AT	<u>43</u>	Richet, E., et al., "The Interaction of Recombination Proteins with Supercoiled DNA: Defining the Role of Supercoiling in Lambda Integrative Recombination," Cell 46:1011-1021, Cell Press, Cambridge, MA (1986).

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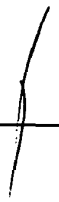
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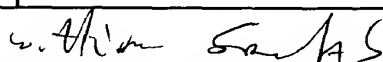
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	AN						Yes No
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>44</u>	Richet, E., et al., "Synopsis of Attachment Sites during Lambda Integrative Recombination Involves Capture of a Naked DNA by a Protein-DNA Complex," Cell 52:9-17, Cell Press, Cambridge, MA (1988).
	AS	<u>44</u>	Sadowski, P., "Site-Specific Recombinases: Changing Partners and Doing the Twist," J. Bacteriol. 165(2):341-347, American Society for Microbiology, Washington, D.C. (1986).
	AT	<u>44</u>	Sadowski, P.D., "The Flp recombinase of the 2-microns plasmid of Saccharomyces cerevisiae," Prog. Nucl. Acid Res. Mol. Biol. 51:53-91, Academic Press, New York, NY (1995).

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.285000C	APPLICATION NO. 09/648,790
	APPLICANT Hartley et al.	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>45</u>	Sauer, B., et al., "Site-specific insertion of DNA into a pseudorabies virus vector," <i>Proc. Natl. Acad. Sci. USA</i> 84:9108-9112, National Academy of Sciences of the USA, Washington, D.C. (1987).
	AS	<u>45</u>	Sauer, B., "Functional Expression of the cre-lox Site-Specific Recombination System in the Yeast <i>Saccharomyces cerevisiae</i> ," <i>Mol. Cell. Biol.</i> 7:2087-2096, American Society for Microbiology, Washington, D.C. (1987).
	AT	<u>45</u>	Sauer, B. and Henderson, N., "The cyclization of linear DNA in <i>Escherichia coli</i> by site-specific recombination," <i>Gene</i> 70:331-341, Elsevier/North-Holland, Netherlands (1988).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>46</u>	Sauer, B. and Henderson, N., "Cre-stimulated recombination at loxP-containing DNA sequences placed into the mammalian genome," Nucl. Acids Res. 17:147-161, Oxford University Press, Oxford, England (1989).
	AS	<u>46</u>	Sauer, B., "Manipulation of Transgenes by Site-Specific Recombination: Use of Cre Recombinase," Meth. Enzymol. 225:890-900, Academic Press Inc., New York, NY (1993).
	AT	<u>46</u>	Sauer, B., "Site-specific recombination: developments and applications," Curr. Op. Biotechnol. 5:521-527, Current Biology, Ltd., London, England (October 1994).


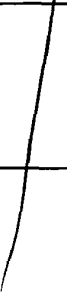
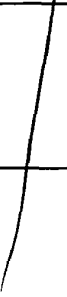
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>47</u>	Sauer, B., "Multiplex Cre/lox recombination permits selective site-specific DNA targeting to both a natural and an engineered site in the yeast genome," <i>Nucl. Acids Res.</i> 24(23):4608-4613, Oxford University Press, Oxford, England (1996).
	AS	<u>47</u>	Sauer, B., "Inducible Gene Targeting in Mice Using the Cre/lox System," <i>Methods</i> 14:381-392, Academic Press, Inc., New York, NY (April 1998).
	AT	<u>47</u>	Schindelbauer, D., and Cooke, H.J., "Efficient combination of large DNA in vitro: in gel site specific recombination (IGSSR) of PAC fragments containing α satellite DNA and the human HPRT gene locus," <i>Nucl. Acids Res.</i> 25(11):2241-2243, Oxford University Press, Oxford, England (1997).

EXAMINER	<i>William S. M.</i>	DATE CONSIDERED	3/21/02
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>ch</i>	AR	<u>48</u>	Schlake, T., and Bode, J., "Use of Mutated FLP Recognition Target (FRT) Sites for the Exchange of Expression Cassettes at Defined Chromosomal Loci," <i>Biochem.</i> 33:12746-12751, American Chemical Society, Washington D.C. (November 1994).
<i>/</i>	AS	<u>48</u>	Segall, A. M. and Nash, H. A., "Synaptic intermediates in bacteriophage lambda site-specific recombination: integrase can align pairs of attachment sites," <i>EMBO J.</i> 12:4567-4576, IRL Press Limited, Oxford, England (1993).
<i>/</i>	AT	<u>48</u>	Segall, A.M., and Nash, H.A., "Architectural flexibility in lambda site-specific recombination: three alternate conformations channel the attL site into three distinct pathways," <i>Genes to Cells</i> 1:453-463, Blackwell Science Ltd., Oxford, England (1996).

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William S. AHS

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>49</u>	Senecoff, J.F., et al., "DNA Recognition by the FLP Recombinase of the Yeast 2 μ Plasmid - A Mutational Analysis of the FLP Binding Site," <i>J. Mol. Biol.</i> 201:405-421, Academic Press, Inc., New York, NY (1988).
	AS	<u>49</u>	Sheffield, P. et al., "Overcoming Expression and Purification Problems of RhoGDI Using a Family of "Parallel" Expression Vectors," <i>Protein Expr. Purific.</i> 15:34-39, Academic Press, New York, NY (1999).
	AT	<u>49</u>	Shuman, S., "Recombination mediated by vaccinia virus DNA topoisomerase I in <i>Escherichia coli</i> is sequence specific," <i>Proc. Natl. Acad. Sci. USA</i> 88:10104-10108, National Academy of Sciences of the USA, Washington, D.C. (1991).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>50</u>	Sizemore, C., et al., "Quantitative analysis of Tn10 Tet repressor binding to a complete set of tet operator mutants," Nucl. Acids Res. 18(10):2875-2880, Oxford University Press, Oxford, England (1990).
	AS	<u>50</u>	Smith, A. J. H., et al., "A site-directed chromosomal translocation induced in embryonic stem cells by Cre-loxP recombination," Nat. Gen. 9:376-385, Nature Publishing Co., New York, NY (April 1995).
	AT	<u>50</u>	Snaith, M.R., et al., "Multiple cloning sites carrying loxP and FRT recognition sites for the Cre and Flp site-specific recombinases," Gene 166:173-174, Elsevier/North-Holland, Netherlands (December 1995).

EXAMINER <i>W. A. H. - S. J. S.</i>	DATE CONSIDERED <i>3/2/00</i>
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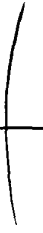

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	AR	<u>51</u>	Spengler, S.J., et al., "The Stereostructure of Knots and Catenanes Produced by Phage λ Integrative Recombination: Implications for Mechanism and DNA Structure," Cell 42:325-334, Cell Press, Cambridge, MA (1985).
	AS	<u>51</u>	Sternberg, N., et al., "Site-specific Recombination and Its Role in the Life Cycle of Bacteriophage P1," Cold Spring Harbor Symp. Quant. Biol. 45:297-309, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY (1981).
	AT	<u>51</u>	Sternberg, N., et al., "Bacteriophage P1 cre Gene and its Regulatory Region," J. Mol. Biol. 187:197-212, Academic Press, Inc., New York, NY (1986).

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	AR	<u>52</u>	Sternberg, N., "Bacteriophage P1 cloning system for the isolation, amplification, and recovery of DNA fragments as large as 100 kilobase pairs," Proc. Natl. Acad. Sci. USA 87:103-107, National Academy of Sciences of the USA, Washington, D.C. (1990).
	AS	<u>52</u>	Storck, T., et al., "Rapid construction in yeast of complex targeting vectors for gene manipulation in the mouse," Nucl. Acids Res. 24:4594-4596, Oxford University Press, Oxford, England (1996).
	AT	<u>52</u>	Strathmann, M., et al., "Transposon-facilitated DNA sequencing," Proc. Natl. Acad. Sci. USA 88:1247-1250, National Academy of Sciences of the USA, Washington, D.C. (1991).


EXAMINER	<i>William S. [Signature]</i>	DATE CONSIDERED	3/21/02
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	53	Thompson, J. F., et al., "Mutations in an Integration Host Factor-Binding Site: Effect on Lambda Site-Specific Recombination and Regulatory Implications," J. Bacteriol. 168:1343-1351, American Society for Microbiology, Washington, D.C. (1986).
	AS	53	Thompson, J.F., et al., "Helical-repeat dependence of integrative recombination of bacteriophage λ: Role of the P1 and H1 protein binding sites," Proc. Natl. Acad. Sci. USA 85:6323-6327, National Academy of Sciences of the USA, Washington, D.C. (1988).
	AT	53	Thorpe, H.M., and Smith, M.C.M., "In vitro site-specific integration of bacteriophage DNA catalyzed by a recombinase of the resolvase/invertase family," Proc. Natl. Acad. Sci. USA 95:5505-5510, National Academy of Sciences of the USA, Washington, D.C. (May 1998).

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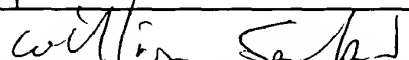
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	AR	<u>54</u>	Tsurushita, N., et al., "Phage display vectors for in vivo recombination of immunoglobulin heavy and light chain genes to make large combinatorial libraries," <i>Gene</i> 172:59-63, Elsevier/North-Holland, Netherlands (1996).
	AS	<u>54</u>	Vanin, E.F., et al., "Development of High-Titer Retroviral Producer Cell Lines by Using Cre-Mediated Recombination," <i>J. Virol.</i> 71:7820-7826, American Society for Microbiology, Washington, D.C. (1997).
	AT	<u>54</u>	Waterhouse, P., et al., "Combinatorial infection and in vivo recombination: a strategy for making large phage antibody repertoires," <i>Nucl. Acids Res.</i> 21(9):2265-2266, Oxford University Press, Oxford, England (1993).

EXAMINER 	DATE CONSIDERED 3/2/02
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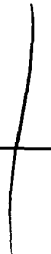
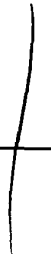
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	AO						Yes No
	AP						Yes No

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	AR	55	Wang, G., et al., "pDUAL: A transposon-based cosmid cloning vector for generating nested deletions and DNA sequencing templates <i>in vivo</i> ," Proc. Natl. Acad. Sci. USA 90:7874-7878, National Academy of Sciences of the USA, Washington, D.C. (1993).
	AS	55	Wasserman, S.A., et al., "The helical repeat of double-stranded DNA varies as a function of catenation and supercoiling," Nature 334:448-450, Macmillan Publishers Ltd., London, England (1988).
	AT	55	Wierzbicki, A., et al., "A Mutational Analysis of the Bacteriophage P1 Recombinase Cre," J. Mol. Biol. 195:785-794, Academic Press, Inc., New York, NY (1987).

EXAMINER	<i>William S. Sabel</i>	DATE CONSIDERED	3/31/02
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>56</u>	Weisberg, R. A., and Landy, A., "Site-specific Recombination in Phage Lambda," in: "Lambda II," Hendrix, R. W. et al., eds., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, N. Y., pp. 211-250 (1983).
	AS	<u>56</u>	Wild, J., et al., "A broad-host-range in vivo pop-out and amplification system for generating large quantities of 50- to 100-kb genomic fragments for direct DNA sequencing," <i>Gene</i> 179:181-188, Elsevier/North-Holland, Netherlands (1996).
	AT	<u>56</u>	Wild, J., et al., "Targeting and retrofitting pre-existing libraries of transposon insertions with FRT and oriV elements for in-vivo generation of large quantities of any genomic fragment," <i>Gene</i> 223:55-66, Elsevier/North-Holland, Netherlands (1998).

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>57</u>	Winoto, A., et al., "Directional Control of Site-specific Recombination by Bacteriophage λ," J. Mol. Biol. 192:677-680, Academic Press, Inc., New York, NY (1986).
	AS	<u>57</u>	Yang, W., and Mizuuchi, K., "Site-specific recombination in plane view," Structure 5:1401-1406, Current Biology, London, England (1997).
	AT	<u>57</u>	Yanisch-Perron, C., et al., "Improved M13 phage cloning vectors and host strains: nucleotide sequences of the M13mp18 and pUC19 vectors," Gene 33:103-119, Elsevier/North-Holland, Netherlands (1985).

EXAMINER <i>W. F. H. Smith</i>	DATE CONSIDERED <i>3/21/02</i>
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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.285000C	APPLICATION NO. 09/648,790
	APPLICANT Hartley et al.	
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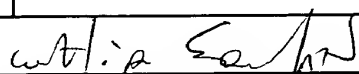
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	AR	<u>58</u>	Yoon, Y.G., et al., "Cre/loxP-mediated in vivo excision of large segments from yeast genome and their amplification based on the 2 μ m plasmid-derived system," Gene 223:67-76, Elsevier/North-Holland, Netherlands (1998).
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	AT	<u>58</u>	Zhang, Y. et al., "A new logic for DNA engineering using recombination in Escherichia coli," Nat. Genet. 20:123-128, Nature Publishing Co., New York, NY (1998).

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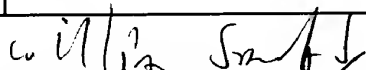
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	AR	<u>59</u>	Zhu, et al., "Homology requirements for ligation and strand exchange by the FLP recombinase," J. Biol. Chem. 270:11646-11653, American Society for Biochemistry and Molecular Biology, Inc., Baltimore, MD (1995).
	AS	<u>59</u>	International Search Report for International Application No. PCT/US98/22589, mailed October 26, 1998.
	AT	<u>59</u>	Gage, P.J., et al., "A Cell-Free Recombination System for Site-Specific Integration of Multigenic Shuttle Plasmids into Herpes Simplex Type 1 Genome," J. Virol. 66:5509-5515, American Society for Microbiology, Washington, D.C. (1992).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

21	AR	60	Götz, F., et al., "Escherichia coli 30S mutants lacking protein S20 are defective in translation initiation," <i>Biochim. Biophys. Acta</i> 1050:93-97, Elsevier Publishing Co., Amsterdam, Netherlands (1990).
1	AS	60	Green, R. and Noller, H.F., "Ribosomes and Translation," <i>Ann. Rev. Biochem.</i> 66:679-716, Annual Reviews, Inc., Palo Alto, CA (1997).
1	AT	60	Jeong, J.-H., et al., "Cloning and nucleotide sequencing of the genes, <i>rplU</i> and <i>rpmA</i> , for ribosomal proteins L21 and L27 of <i>Escherichia coli</i> ," <i>J. DNA sequencing and Mapping</i> 4:59-67, Harwood Academic Publishers GmbH, Switzerland (1993).

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William S. H.S.

DATE CONSIDERED


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	AR	<u>61</u>	Kitts, P.A. and Nash, H.A., "Bacteriophage Lambda Site-Specific Recombination Proceeds with a Defined Order of Strand Exchanges," <i>J. Mol. Biol.</i> 204:95-107, Academic Press, Inc., New York, NY (1988).
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EXAMINER	<i>W. Aliman Smith</i>	DATE CONSIDERED	3/2/02
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	AR	<u>62</u>	Nomura, M., et al., "Regulation of the Synthesis of Ribosomes and Ribosomal Components," Ann. Rev. Biochem. 53:75-117, Annual Reviews, Inc., Palo Alto, CA (1984).
	AS	<u>62</u>	Wittman, H.G., "Components of Bacterial Ribosomes," Ann. Rev. Biochem. 51:155-183, Annual Reviews, Inc., Palo Alto, CA (1982).
	AT	<u>62</u>	Wittmann, H.G., "Architecture of Prokaryotic Ribosomes," Ann. Rev. Biochem. 52:35-65, Annual Reviews, Inc., Palo Alto, CA (1983).

EXAMINER <i>Cathia Smith</i>	DATE CONSIDERED 3/21/01
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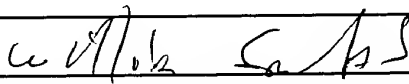
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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	AS	63	Simpson, J.C., et al., "Systematic subcellular localization of novel proteins identified by large-scale cDNA sequencing," EMBO Reports 1:287-292, IRL Press Limited, Oxford, England (September 2000).
	AT	63	Pending U.S. Non-Provisional Patent Application No. 09/177,387, filed October 23, 1998.

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	<p>APPLICANT Hartley et al.</p>	
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

64	AR	Pending U.S. Non-Provisional Patent Application No. 09/233,492, filed January 20, 1999.
64	AS	Pending U.S. Non-Provisional Patent Application No. 09/296,280, filed April 22, 1999.
64	AT	Pending U.S. Non-Provisional Patent Application No. 09/296,281, filed April 22, 1999.

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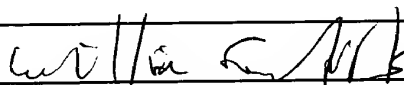
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>65</u>	Pending U.S. Non-Provisional Patent Application No. 09/432,085, filed November 02, 1999.
	AS	<u>65</u>	Pending U.S. Non-Provisional Patent Application No. 09/438,358, filed November 12, 1999.
	AT	<u>65</u>	Pending U.S. Non-Provisional Patent Application No. 09/498,074, filed February 4, 2000.

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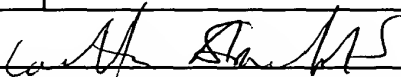
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	AR	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/517,466, filed March 2, 2000.
	AS	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/518,188, filed March 2, 2000.
	AT	<u>66</u>	Pending U.S. Non-Provisional Patent Application No. 09/695,065, filed October 25, 2000.

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	AP						Yes No

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	AR	<u>67</u>	Pending U.S. Non-Provisional Patent Application No. 09/732,914, filed December 11, 2000.
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